A8620-3

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703)827-5260

STATISTICS

No. 111-89 August 30, 1989

U.S. FOREIGN TRADE -- JUNE 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY
(Millions of U.S. Dollars)

	June 1989	May 1989	% Change June-May	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$159.6	$165.5	-3.6%	$921.6	$745.8	23.6%
Exports	$ 41.9	$ 30.6	36.9%	$220.0	$195.4	12.6%
Balance	-$117.7	-$134.9	-12.8%	-$701.6	-$550.4	27.5%
METAL FORMING						
Imports	$ 44.4	$ 50.3	-11.7%	$288.4	$226.0	27.6%
Exports	$ 45.1	$ 38.5	17.1%	$246.4	$155.3	58.7%
Balance	$ 0.7	-$ 11.8	-105.9%	-$ 42.0	-$ 70.7	-40.6%
MACHINE TOOL TOTAL						
Imports	$204.0	$215.8	-5.5%	$1,210.0	$971.8	24.5%
Exports	$ 87.0	$ 69.1	25.9%	$ 466.4	$350.7	33.0%
Balance	-$117.0	-$146.7	-20.2%	-$ 743.6	-$621.1	19.7%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$105.7	$118.3	-10.7%	$633.6	$427.7	48.1%
Exports	$ 21.7	$ 14.4	50.7%	$112.5	$ 71.6	57.1%
Balance	-$ 84.0	-$103.9	-19.2%	-$521.1	-$356.1	46.3%
OTHER MANUFACTURING TECHNOLOGY						
Imports	$138.3	$124.5	11.1%	$754.5	NA	NA
Exports	$100.8	$104.9	- 3.9%	$589.3	NA	NA
Balance	-$ 37.5	-$ 19.6	91.3%	-$165.2	NA	NA

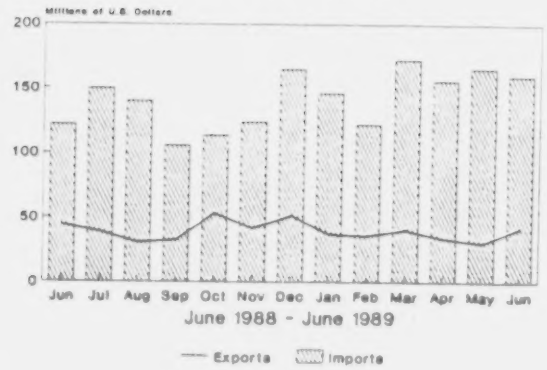
Note: Numerically controlled machine tools includes both metal cutting and metal forming types, and are included in respective totals.

During June 1989, U.S. imports of both metal cutting and metal forming machine tools fell, while exports rose compared with May. The metal forming machine tool trade balance showed a surplus for the month, while the metal cutting trade deficit showed some improvement.

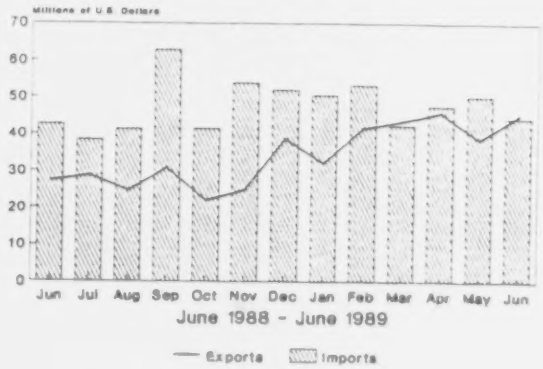
7901 WESTPARK DRIVE, McLEAN, VIRGINIA 22102-4269 / PHONE (703) 893-2900 / TLX 353819 / FAX (703)893-1151

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



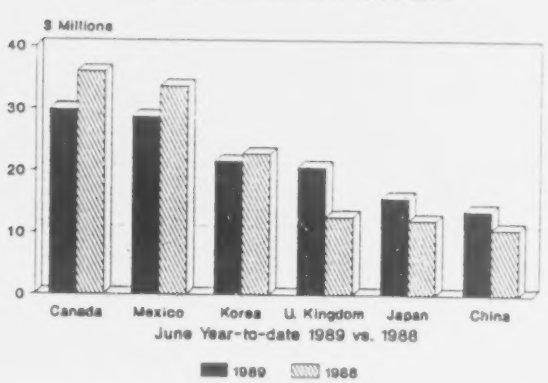
METAL CUTTING

Exports

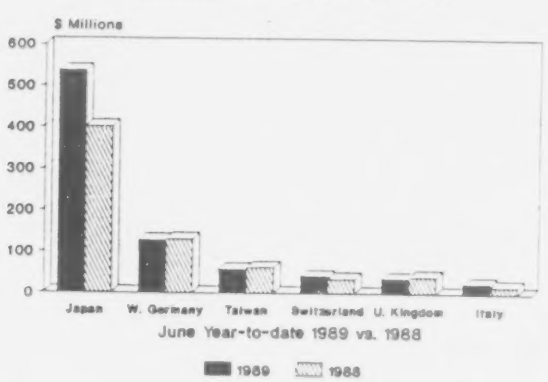
U.S. metal cutting machine tool exports jumped 37% during June to $41.9 million. The United Kingdom was the leading export market during the month at $6.5 million. This figure raised the year-to-date export total to the United Kingdom to $20.6 million, up 63% compared with the first half of 1988. West Germany also showed a strong month, with exports at $4.1 million, and year-to-date shipments up 41% compared with last year. The top three export markets, Canada, Mexico and Korea are all running behind last year's year-to-date export totals. Japan surpassed China this month as the fifth leading export market, with year-to-date exports up 30% versus 1988.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

U.S. metal cutting imports fell 4% during June to $159.6 million. Japan was the leading import source, down 15% compared with May, but up 34% year-to-date versus 1988. Imports from Switzerland more than doubled compared with May, as it displaced the United Kingdom to become the fourth leading U.S. foreign supplier through the first six months of 1989. Imports from Korea tripled compared with May, and year-to-date shipments from that country are more than double the 1988 total at $13.0 million.

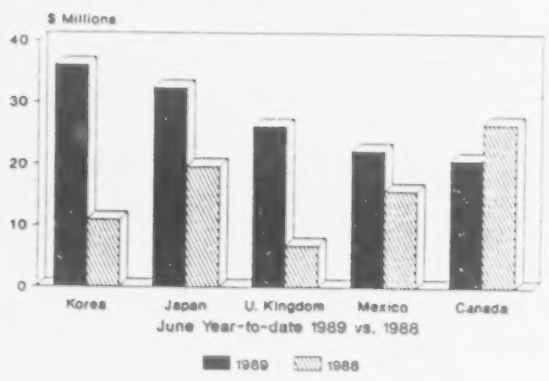
METAL FORMING

Exports

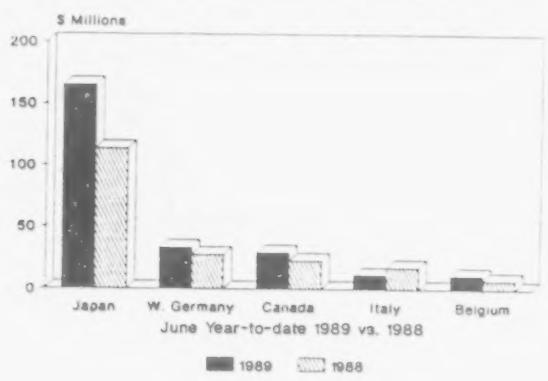
U.S. exports of metal forming machine tools increased 17% during June to $45.1 million, and are up 59% year-to-date. Korea displaced Japan as the leading export market thus far in 1989 as exports to that country reached $8.7 million during June. Year-to-date exports to Korea are more than triple the 1988 figure at $36.0 million. Mexico replaced Canada as the fourth largest market, with exports to Mexico up 41% year-to-date. U.S. metal forming machine tool exports to Venezuela reached $1.4 million during June, as year-to-date exports are up 33% to $5.8 million.

METAL FORMING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

June metal forming imports fell 12% to $44.4 million. Japan's total fell 20% to $22.8 million compared with May. However, year-to-date imports from Japan are up 45% versus 1988. West Germany was the second leading import source, up 7% to $5.6 million during June, and up 22% year-to-date. The remaining countries in the top five each showed declines in shipments to the United States compared with May.

Other Manufacturing Technology

Exports

Despite an overall drop in "Other Manufacturing Technology" exports during June by 4% to $100.8 million, several areas showed significant gains. Robots and parts exports more than doubled to $7.8 million; injection molding machines for thermoplastics increased 53% to $5.8 million; extruders for thermoplastics jumped 95% to $6.0 million; and industrial process control instruments registered a 31% gain to $4.3 million.

U.S. exports of machine tool parts and accessories totalled $55.0 million in June, down 12% from May. Exports of numerical controls for machine tools were $5.1 million, up 53% from May. The top U.S. export market for parts and accessories was Canada, at $9.9 million, down from $12.0 million during May.

Imports

U.S. imports of "Other Manufacturing Technology" increased 11% to $138.3 million during June. Big gainers included industrial robots and parts, up from $13.7 to $27.2 million; blow molding machine imports doubled to $4.3 million during June; machines and appliances for testing metals were up 78% to $3.0 million; and machines for balancing mechanical parts experienced over a 3-fold increase to $1.5 million.

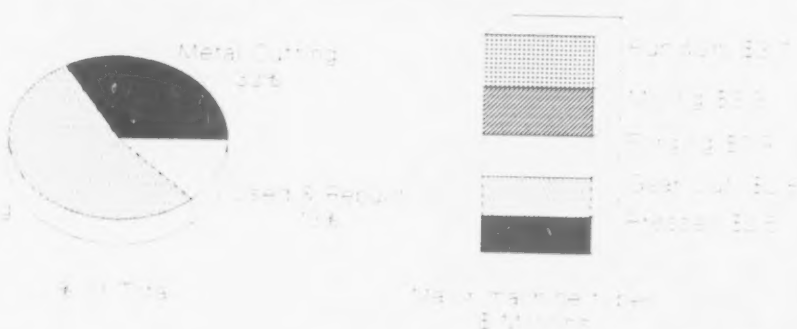
U.S. imports of machine tool parts and accessories reached $56.4 million in June, down 3% from May. The largest source market was Japan at $23.6 million, up 38% from May. Imports of numerical controls rose 32% during the month to $4.9 million.

MONTHLY FOCUS

U.S. Exports to Korea

During June, Korea emerged as the largest U.S. export market thus far in 1989. U.S. exports to Korea reached $57.6 million during the first half, with metal forming exports more than tripling to $36.0 million. The metal cutting total actually fell slightly from last year. NC machines accounted for 32% of the export cutting total to Korea.

U.S. MACHINE TOOL EXPORTS TO KOREA
January - June 1989



U.S. IMPORTS

RELEASED: August 30, 1989 — Metal Cutting Machine Tools - June 89

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	389	32482	73	6319
301030	Traveling wire electro-discharge machines, non-NC	115	8084	26	1386
301050	Electro-discharge machines, n.e.c., NC	107	4581	8	485
301070	Electro-discharge machines, n.e.c., non-NC	166	5981	36	1265
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1094	90153	228	17244
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	104	12887	17	4208
100035	Horiz. mach. ctrs., ATC	355	67971	68	13762
100045	Mach. ctrs., n.e.c.	167	19533	13	5032
200010	Unit construction mach. (single station transfer), NC	8	1027	0	0
200090	Unit construction mach. (single station transfer), non-NC	13	549	7	164
300010	Multi-station transfer machines, NC	10	9498	1	648
300090	Multi-station transfer machines, non-NC	64	15602	7	3397
8458110010	Horiz. lathes, multiple spindle, NC	140	22656	38	4858
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1580	122067	254	18095
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	306	41835	58	6711
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	50	6497	9	2207
190030	Horiz. engine or toolroom lathes, non-NC	1405	13589	146	1813
190050	Automatic bar and/or chucking mach., single spindle, non-NC	216	7046	95	3203
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	46	3161	12	1282
190090	Horiz. lathes, n.e.c., non-NC	539	7688	92	1409
911060	Vertical turret lathes, multiple spindle, NC	13	2187	4	888
911080	Vertical turret lathes, n.e.c., NC	23	3284	2	324
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	582	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	43	4238	7	815
991050	Vertical turret lathes, non-NC	24	2830	10	1223
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	415	11652	89	2435
8459100000	Way-type unit head machines	7	423	4	153
210080	Other drilling machines, NC	227	21024	37	1555
290040	Drilling machines, multiple spindle, non-NC	42	2418	12	717
290050	Drilling machines, radial, non-NC	240	1505	45	407
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	133	1037	6	137
290090	Drilling machines, n.e.c., non-NC	324	20026	52	1910
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1626	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	88	8877	10	246
310070	Boring-milling mach., n.e.c., NC	44	2514	5	489
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	26	706	2	115
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	102	3991	19	397
400040	Boring machines, vertical, NC	12	5729	1	284
400050	Boring machines, vertical, non-NC	24	291	6	153
400070	Boring machines, n.e.c., NC	9	2298	0	0
400080	Boring machines, n.e.c., non-NC	133	4515	29	844
510080	Milling machines, knee type, NC	623	10088	120	1370
590030	Milling machines, knee type, non-NC	1676	16792	282	1707
610080	Milling machines, excl. knee type, n.e.c., NC	128	20414	16	1306
690050	Milling machines, profile, dup., or die sinking, non-NC	11	438	7	28
690070	Milling machines, bed type, non-NC	58	1850	3	51
690090	Milling machines, n.e.c., non-NC	336	7446	106	1024
700020	Threading or tapping machines, n.e.c., NC	151	8270	27	1064
700080	Threading or tapping machines, n.e.c., non-NC	140	5417	18	1090
8460110080	Flat surface grinding mach., NC	103	6083	24	1331
190010	Flat surface grinding mach., recip.-table type, non-NC	511	5859	112	1183
190050	Flat surface grinding mach., n.e.c., non-NC	881	10077	154	1465
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	188	42976	27	8966
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	200	7665	35	701
290030	Grinding mach., internal cylindrical, non-NC	76	5735	12	890
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	756	23791	188	4071
310080	Sharpening machines (tool & cutter grinding), NC	148	1766	52	434
390050	Sharpening machines (tool & cutter grinding), non-NC	346	5190	68	1097
400060	Honing or lapping machines, NC	26	5662	1	24
400080	Honing or lapping machines, non-NC	83	2607	20	884
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	34	2784	3	13
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	629	16495	78	2801
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	54	0	0
200010	Shaping or slotting machines, NC	26	1433	0	0
200090	Shaping or slotting machines, non-NC	31	1294	3	398
300060	Broaching machines, NC	9	2067	0	0
300080	Broaching machines, non-NC	39	3951	1	12
401050	Gear hobbers	57	9226	23	3739
401070	Gear shapers	7	1049	1	185
401090	Gear cutting machines, n.e.c.	252	547	101	369
405060	Gear grinding or finishing machines	81	9838	20	1292
500050	Sawing or cutting-off machines, NC	56	1861	11	194
500090	Sawing or cutting-off machines, non-NC	951	12550	163	2234
9000000001	Metal cutting machine tools, n.e.c.	350	10142	57	1390
9800000001	Used or rebuilt machine tools	3486	21314	242	3060
9900000001	Machine tools valued at less than $2,500	284087	44141	66914	8701
	Cutting Total			70417	159649
Please see notes on last page	Y-T-D Cutting Total	305346	921611		
of the metal forming section.	NC Y-T-D Cutting Total	6311	589216		

U.S. IMPORTS
Metal Cutting Machine Tools - June 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	10	176	0	0
100025	0	0	0	0	0	0	1	55	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	648
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	10	59	0	0	0	0	0	0
110050	0	0	0	0	0	0	4	283	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	9	65	1	11	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	3	63	312	0	0	3	19	1	154
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	8	30	0	0	0	0	0	0
995090	0	0	15	86	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	5	48	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	1462	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	139
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	1	84
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	4	65
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	34	0	0	8	69
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	1
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	44	0	0
700020	5	185	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	8	142
190050	0	0	0	0	1	7	0	0	0	0
210080	0	0	0	0	0	0	1	3	1	317
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	374
290050	0	0	0	0	11	160	2	25	1	141
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	11	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	144
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	16	0	0	3	31
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	9	351
405060	0	0	0	0	2	18	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	25	395	4	58	1	14
9000000001	0	0	0	0	3	21	4	47	2	75
9800000001	6	183	0	0	25	9	2	22	12	65
9900000001	0	0	0	0	34	19	127	85	5438	821
Month Tot	12	371	110	600	111	702	163	2279	5494	3636
Y-T-D Tot	69	4078	558	3195	2065	9131	954	14926	18096	24501
NC YTD Tot	11	383	14	298	11	487	33	1680	102	8078

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - June 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	68	5911	0	0	0	0	0	0	0	0
301030	3	359	0	0	0	0	0	0	0	0
301050	8	485	0	0	0	0	0	0	0	0
301070	2	86	0	0	0	0	0	0	0	0
8457100015	171	14485	11	463	17	700	0	0	0	0
100025	9	3749	0	0	0	0	0	0	0	0
100035	50	9304	6	904	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	2	684
200090	7	164	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	2663	0	0	0	0	0	0	0	0
8458110010	29	3728	0	0	0	0	0	0	0	0
110030	220	16468	7	456	0	0	0	0	0	0
110050	45	5894	4	136	0	0	0	0	0	0
110090	0	0	5	597	0	0	0	0	0	0
190030	2	78	25	445	12	126	0	0	0	0
190050	44	2916	0	0	0	0	1	13	0	0
190070	1	266	0	0	0	0	0	0	0	0
190090	2	253	2	66	0	0	0	0	0	0
911060	4	888	0	0	0	0	0	0	0	0
911080	2	324	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	2	137	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	26	1579	0	0	0	0	0	0
8459100000	4	153	0	0	0	0	0	0	0	0
210080	36	1550	0	0	0	0	0	0	0	0
290040	2	82	0	0	0	0	0	0	0	0
290050	2	99	0	0	0	0	0	0	0	0
290070	2	109	0	0	0	0	2	25	10	40
290090	5	65	0	0	0	0	1	3	0	0
310010	0	0	0	0	0	0	18	54	6	16
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	5	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	1	284	0	0	0	0	0	0	0	0
400050	2	88	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	1	134	0	0	0	0	0	0	1	8
590030	4	101	1	8	0	0	76	572	0	0
610080	2	1189	0	0	0	0	90	545	1	26
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	7	106	0	0	0	0	0	0	0	0
700020	22	879	0	0	0	0	41	334	0	0
700080	12	675	0	0	0	0	0	0	0	0
8460110080	2	696	0	0	0	0	0	0	0	0
190010	50	481	0	0	19	209	0	0	0	0
190050	21	154	0	0	1	23	0	0	0	0
210080	18	4381	0	0	0	0	0	0	0	0
290010	1	60	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	85	0	0
290050	5	585	0	0	2	38	0	0	3	327
310080	1	38	0	0	0	0	1	3	0	0
390050	8	63	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	117	0	0	0	0	0	0	2	19
900060	0	0	0	0	0	0	0	0	0	0
900080	14	1103	0	0	1	8	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	26	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	12	0	0	0	0	0	0	0	0
401050	1	46	8	365	0	0	0	0	0	0
401070	1	185	0	0	0	0	0	0	0	0
401090	24	6	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	9	174	0	0	0	0	0	0	0	0
500090	68	1039	0	0	0	0	0	0	0	0
9000000001	2	46	0	0	0	0	4	24	1	25
9800000001	38	1341	0	0	0	0	0	0	1	4
9900000001	7093	1043	3103	198	0	0	0	0	276	200
Month Tot	8131	85265	3198	5218	52	1103	236	1663	303	1849
Y-T-D Tot	27100	536787	4093	12955	359	7044	1110	10142	1528	5369
MC YTD Tot	4067	449900	101	6185	72	3547	312	3330	3	707

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - June 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	4	341	0	0	0	0	1	67	0	0
301030	9	917	14	110	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	11	611	11	162	0	0	2	231	0	0
8457100015	0	0	8	615	13	501	7	424	0	0
100025	0	0	4	208	4	252	0	0	0	0
100035	0	0	0	0	0	0	12	3554	0	0
100045	2	1399	0	0	1	132	3	2583	5	234
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	6	734	0	0	0	0	0	0	0	0
8458110010	2	118	0	0	0	0	7	1012	0	0
110030	7	501	8	411	1	39	1	162	0	0
110050	0	0	3	173	0	0	2	225	0	0
110090	0	0	0	0	0	0	4	1610	0	0
190030	0	0	32	325	26	235	0	0	39	528
190050	0	0	29	180	0	0	0	0	21	95
190070	5	821	4	34	2	161	0	0	0	0
190090	0	0	1	8	10	309	2	254	7	31
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	589	4	90
991050	0	0	0	0	0	0	2	1192	0	0
995090	0	0	4	37	3	19	1	6	40	708
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	4	0	0	0	0	0	0
290040	5	366	0	0	0	0	5	269	0	0
290050	0	0	19	136	0	0	1	12	6	47
290070	0	0	3	24	0	0	0	0	0	0
290090	1	7	6	23	2	17	10	266	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	9	107	0	0
310070	1	22	0	0	0	0	2	439	1	22
390040	0	0	0	0	1	31	0	0	0	0
390050	0	0	17	113	0	0	2	285	0	0
400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	2	437	0	0	2	35	11	155	2	105
510080	0	0	27	245	14	373	0	0	2	45
590030	0	0	143	824	21	80	1	12	21	110
610080	0	0	10	102	0	0	0	0	3	14
690050	0	0	6	22	0	0	0	0	1	6
690070	0	0	3	51	0	0	0	0	0	0
690090	0	0	15	74	0	0	2	253	40	215
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	4	285	2	129	0	0
8460110080	3	14	12	150	4	25	2	446	1	1
190010	0	0	34	130	0	0	1	222	0	0
190050	3	195	108	572	8	105	2	386	10	24
210080	2	3088	0	0	0	0	5	1177	0	0
290010	4	461	0	0	2	93	27	76	1	11
290030	1	30	0	0	0	0	1	306	8	94
290050	2	23	1	3	7	241	151	1988	3	39
310080	2	19	38	201	0	0	10	173	0	0
390050	4	36	6	33	12	98	31	558	3	299
400060	0	0	0	0	1	24	0	0	0	0
400080	5	126	0	0	5	410	6	67	0	0
900060	0	0	0	0	0	0	0	0	3	13
900080	2	265	0	0	31	243	9	828	16	308
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	372
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	14	3328	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	28	3	0	0	0	0	40	9	0	0
405060	16	712	0	0	0	0	2	562	0	0
500050	0	0	1	7	0	0	1	13	0	0
500090	0	0	16	131	21	60	21	462	7	75
9000000001	0	0	0	0	16	184	3	852	22	115
9800000001	2	4	42	175	75	745	32	416	7	97
9900000001	117	10	36345	4831	253	155	799	470	13329	869
Month Tot	246	11257	36971	10111	539	4853	1247	26176	13604	4567
Y-T-D Tot	789	41186	191190	57526	4200	36204	6344	128084	46891	30484
NC YTD Tot	105	17433	511	11867	382	16913	420	63204	167	5203

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

June 89

RELEASED: August 30, 1989

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	2641	22976	43	4144
8462100030	Headers and upsetters, including cold headers	59	6053	11	847
100050	Forging or die stamping machines, and hammers, n.e.c.	796	43845	94	4685
210080	Bending, folding, straight. or flat. mach., incl presses, NC	645	16253	45	2310
290030	Press brakes, non-NC	216	5864	34	1084
290040	Bending rolls, non-NC	48	1469	3	143
290050	Bending, folding, straight., or flat., n.e.c., non-NC	583	26597	118	5877
310080	Shearing machines, NC	20	2312	0	0
390050	Shearing machines, non-NC	333	8089	57	1556
410080	Punching or notching mach., incl. comb. punch & shear, NC	182	18787	50	4527
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	349	8417	119	2765
910060	Hydraulic presses, NC	24	2345	0	0
910090	Hydraulic presses, non-NC	196	12336	45	1804
990030	Presses, n.e.c., NC	31	4724	1	12
990040	Presses, mechanical, non-NC	66	23337	22	375
990060	Presses, n.e.c., non-NC	693	41846	88	6544
8463100080	Draw benches for bars, tubes, profiles, wire or the like	25	2105	6	528
200080	Thread rolling machines	21	964	2	43
300080	Machines for working wire	248	11909	77	2673
900080	Metal forming machine tools, n.e.c.	426	16722	60	2318
9800000002	Used or rebuilt machine tools	451	7915	109	1688
9900000002	Machine tools valued at less than $2,500	10177	3500	1795	473
	Forming Total			2779	44395
	Y-T-D Forming Total	18230	288365		
	NC Y-T-D Forming Total	902	44421		
	Cutting and Forming Totals:				
	Monthly Total			73196	204044
	Y-T-D Total	323576	1209976		
	NC Y-T-D Total	7213	633636		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	341692	0	56378
2710003070	Quenching or cutting oils	0	42	0	6
8428900010	Industrial robots for lifting, handling, loading or unload	916	23926	168	3344
8456101010	Laser, light or photon beam for working metal, NC	47	6880	9	839
101020	Laser, light or photon beam for working metal, non-NC	12	1234	2	442
105000	Laser, light or photon beam for other materials	1063	2796	24	621
201010	Ultrasonic processes for working metal, NC	4	421	0	0
201050	Ultrasonic processes for working metal, non-NC	10	22	0	0
205000	Ultrasonic processes for working other materials	130	442	11	58
8477106010	Injection molding mach., for rubber or oth. thermosetting	426	46399	99	8968
106050	Injection molding mach., for thermoplastics	1341	135806	291	21931
200010	Extruders for rubber or other thermosetting materials	98	14151	20	1639
200050	Extruders for processing thermoplastics	378	23175	56	2371
300000	Blow molding machines	141	22224	31	4348
400000	Vacuum-molding and other thermoforming machines	148	13182	6	3313
8479899040	Industrial robots, n.e.c.	11847	80714	1969	23869
900040	Industrial robot parts	0	0	0	0
8537100030	Numerical controls for controlling machine tools	5493	23519	708	4935
9024100000	Machines and appliances for testing metals	0	7829	0	3031
9031100000	Machines for balancing mechanical parts	0	4256	0	1535
300000	Profile projectors	0	2925	0	341
9032810020	Industrial process control instr., hydraulic	88294	1416	14889	117
810060	Industrial process control instr., pneumatic	50347	1439	13376	259

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	32	67	0	0	2	83
8462100030	0	0	0	0	0	0	0	0	3	346
100050	0	0	0	0	9	52	0	0	3	335
210080	1	4	0	0	1	96	0	0	0	0
290030	9	389	0	0	11	486	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	26	1559	0	0	28	218
310080	0	0	0	0	0	0	0	0	0	0
390050	11	161	0	0	9	244	0	0	7	663
410080	0	0	0	0	0	0	0	0	0	0
490050	1	585	0	0	2	32	0	0	12	68
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	8	269	0	0	2	42
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	392	0	0	29	1219	1	13	1	61
8463100080	2	31	0	0	0	0	0	0	3	492
300080	16	544	4	132	0	0	1	28	0	0
900080	0	0	0	0	5	185	12	32	3	95
9800000002	9	397	0	0	11	264	2	4	14	84
9900000002	2	1	0	0	4	7	0	0	25	22
Month Tot	52	2503	4	132	147	4478	16	77	104	2533
Y-T-D Tot	311	10747	11	143	3383	29234	81	922	638	11116
NC YTD Tot	29	784	0	0	11	741	6	163	4	612
C&F Month	64	2875	114	732	258	5180	179	2356	5598	6169
C&F Y-T-D	380	14825	569	3338	5448	38366	1035	15847	18734	35617
C&F NC YTD	40	1168	14	298	22	1229	39	1843	106	8690

Other Manufacturing Technology

1000000000	0	221	0	36	0	4268	0	1235	0	1471
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	3	103	16	131	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	1	204	8	880	1	132
106050	0	0	0	0	28	2583	0	0	20	900
200010	0	0	0	0	0	0	2	358	1	1
200050	0	0	0	0	12	113	1	74	0	0
300000	0	0	0	0	7	542	0	0	0	0
400000	0	0	0	0	1	50	0	0	0	0
8479899040	0	0	0	0	122	255	98	2	1	1
900040	0	0	0	0	0	0	0	0	0	0
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	0	0	0	0	32	0	20	0	0
9031100000	0	0	0	23	0	7	0	5	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	2	4	0	0	0	0
810060	0	0	0	0	0	0	664	4	390	34

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

June 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	3184	0	0	0	0	0	0	0	0
8462100030	8	501	0	0	0	0	0	0	0	0
100050	49	3034	0	0	0	0	0	0	0	0
210080	29	1674	0	0	0	0	0	0	0	0
290030	6	146	0	0	0	0	0	0	0	0
290040	2	121	0	0	0	0	0	0	0	0
290050	25	1890	0	0	0	0	0	0	1	22
310080	0	0	0	0	0	0	0	0	3	62
390050	8	217	0	0	0	0	0	0	0	0
410080	23	2677	0	0	0	0	2	7	0	0
490050	51	1327	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	41	372	7	230
910090	26	1133	2	18	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	8	314	0	0	0	0	0	0	0	0
990060	35	4168	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	1	15	0	0	0	0	0	0	0	0
300080	41	959	0	0	0	0	0	0	0	0
900080	22	935	0	0	0	0	0	0	0	0
9800000002	9	465	0	0	0	0	0	0	1	4
9900000002	53	8	0	0	0	0	41	135	0	0
							56	43	0	0
Month Tot	400	22767	2	18	0	0	140	557	12	318
Y-T-D Tot	2818	165116	60	175	42	603	311	1292	197	4358
NC YTD Tot	614	27450	0	0	0	0	0	0	4	398
C&F Month	8531	108032	3200	5236	52	1103	376	2220	315	2167
C&F Y-T-D	29918	701902	4153	13130	401	7647	1421	11434	1725	9726
C&F NC YTD	4681	477349	101	6185	72	3547	312	3330	7	1105

Other Manufacturing Technology

1000000000	0	23645	0	225	0	544	0	263	0	1286
2710003070	0	6	0	0	0	0	0	0	0	0
8428900010	133	2835	0	0	0	0	0	0	5	236
8456101010	3	711	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	1	1	0	0	0	0	0	0
8477106010	55	4291	1	79	0	0	0	0	0	0
106050	79	9786	1	81	0	0	1	6	0	0
200010	3	283	1	19	0	0	0	0	0	0
200050	2	231	1	4	0	0	0	0	0	0
300000	11	2385	0	0	0	0	0	0	0	0
400000	2	408	0	0	0	0	0	0	0	0
8479899040	1640	21415	0	0	0	0	0	0	9	512
900040	0	0	0	0	0	0	0	0	0	0
8537100030	687	4926	0	0	0	0	0	0	0	0
9024100000	0	2329	0	0	0	0	0	0	0	0
9031100000	0	1317	0	0	0	0	0	0	0	0
300000	0	202	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	366	22	4000	17	0	0	0	0	754	160

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	726	0	0	0	0	0	0	1	84
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	2	6	500	4	326	22	436
210080	1	24	0	0	2	204	8	271	3	37
290030	0	0	0	0	0	0	0	0	8	63
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	6	487	7	235	16	1218	7	208
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	105	9	66	9	92
410080	2	504	0	0	0	0	24	1128	1	217
490050	0	0	0	0	3	25	1	30	1	98
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	3	1	21	2	261	3	58
990030	0	0	0	0	0	0	1	12	0	0
990040	0	0	0	0	14	61	0	0	0	0
990060	0	0	0	0	6	27	14	653	1	12
8463100080	0	0	0	0	0	0	1	5	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	33	3	36	7	609	4	337
900080	0	0	2	20	10	313	4	729	1	5
9800000002	0	0	5	7	2	5	9	292	7	35
9900000002	58	18	1315	198	0	0	37	41	245	135
Month Tot	65	1272	1331	750	56	1531	137	5640	313	1818
Y-T-D Tot	684	9042	5804	4914	496	8370	953	33226	2441	9107
NC YTD Tot	17	2397	23	565	4	270	136	8243	54	2797
C&F Month	311	12529	38302	10860	595	6384	1384	31816	13917	6385
C&F Y-T-D	1473	50228	196994	62440	4696	44574	7297	161310	49332	39590
C&F NC YTD	122	19830	534	12432	386	17183	556	71448	221	8000

Other Manufacturing Technology

1000000000	0	3401	0	2865	0	2636	0	10386	0	3896
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	0	0	0	0	11	38
8456101010	6	128	0	0	0	0	0	0	0	0
101020	1	430	0	0	0	0	1	11	0	0
105000	0	0	0	0	0	0	23	620	1	1
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	10	57	0	0	0	0	0	0	0	0
8477106010	1	77	11	567	0	0	13	2482	8	256
106050	7	640	10	547	4	202	100	4678	41	2509
200010	0	0	6	207	0	0	7	771	0	0
200050	0	0	5	95	2	44	33	1811	0	0
300000	0	0	1	28	0	0	11	1317	1	75
400000	0	0	0	0	0	0	1	2094	2	760
8479899040	3	519	0	0	20	23	20	937	56	204
900040	0	0	0	0	0	0	0	0	0	0
8537100030	0	0	0	0	0	0	20	4	1	6
9024100000	0	107	0	0	0	61	0	342	0	140
9031100000	0	0	0	13	0	0	0	166	0	3
300000	0	0	0	0	0	57	0	83	0	0
9032810020	442	11	0	0	1325	6	42	7	13078	88
810060	0	0	7192	18	0	0	0	0	10	5

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	88	820	2	15	90	834
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	92	0	0	6	92
Denmark	29	183	0	0	29	183
East Germany	1	13	1	5	2	18
Finland	0	0	7	225	7	225
Hungary	0	0	0	0	0	0
Ireland	24	7	0	0	24	7
Luxembourg	0	0	4	337	4	337
Netherlands	147	787	10	29	157	816
Norway	0	0	0	0	0	0
Poland	27	397	0	0	27	397
Portugal	19	58	11	121	30	180
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	32	142	1	98	33	240
Oth Europe	0	0	22	436	22	436
TOTAL	8613	54584	640	15697	9253	70281
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	3	7	26	84	29	91
Oth N & C Am.	0	0	0	0	0	0
TOTAL	114	709	173	4562	287	5271
SOUTH AMERICA						
Argentina	5	113	0	0	5	113
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	115	713	4	132	119	845
OCEANIA						
Australia	11	319	0	0	11	319
New Zealand	0	0	1	170	1	170
Oth Oceania	0	0	0	0	0	0
TOTAL	11	319	1	170	12	490

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13135	1138	210	81	13345	1219
Hong Kong	59	155	1	8	60	163
India	7	29	0	0	7	29
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	10	297	8	117	18	414
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	61563	103315	1952	23741	63515	127056
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	9	92	9	92
Swaziland	0	0	0	0	0	0
Oth Africa	1	9	0	0	1	9
TOTAL	1	9	9	92	10	101

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS

Metal Cutting Machine Tools - June 89

RELEASED: August 30, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	307	2714	2	74
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	15	2406	4	796
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	4	867	1	221
100035	Horiz. mach. ctrs., ATC	24	9276	2	151
100045	Mach. ctrs., n.e.c.	84	6385	7	482
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	3	884	0	0
300010	Multi-station transfer machines, NC	1	167	0	0
300090	Multi-station transfer machines, non-NC	13	2913	0	0
8458110010	Horiz. lathes, multiple spindle, NC	2	456	2	456
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	100	8213	18	1412
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3400	6	1150
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	4	385	0	0
190030	Horiz. engine or toolroom lathes, non-NC	49	997	5	96
190050	Automatic bar and/or chucking mach., single spindle, non-NC	16	59	3	8
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	21	1303	3	121
190090	Horiz. lathes, n.e.c., non-NC	113	1480	26	383
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	4	622	2	483
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	6	676	3	256
991050	Vertical turret lathes, non-NC	10	219	1	14
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	43	2338	3	154
8459100000	Way-type unit head machines	10	2600	0	0
210080	Other drilling machines, NC	39	2957	13	821
290040	Drilling machines, multiple spindle, non-NC	15	858	3	160
290050	Drilling machines, radial, non-NC	19	671	2	114
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	21	731	2	196
290090	Drilling machines, n.e.c., non-NC	55	3139	13	362
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1799	1	107
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	366	0	0
310070	Boring-milling mach., n.e.c., NC	18	1751	2	387
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	-0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	99	2002	4	496
400040	Boring machines, vertical, NC	2	1182	0	0
400050	Boring machines, vertical, non-NC	15	262	5	106
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	32	2097	17	576
510080	Milling machines, knee type, NC	20	1309	9	398
590030	Milling machines, knee type, non-NC	16	542	6	257
610080	Milling machines, excl. knee type, n.e.c., NC	15	2740	0	0
690050	Milling machines, profile, dup., or die sinking, non-NC	18	930	2	178
690070	Milling machines, bed type, non-NC	27	5353	0	0
690090	Milling machines, n.e.c., non-NC	207	4913	20	576
700020	Threading or tapping machines, n.e.c., NC	4	128	0	0
700080	Threading or tapping machines, n.e.c., non-NC	151	4377	29	364
8460110080	Flat surface grinding mach., NC	71	5574	8	610
190010	Flat surface grinding mach., recip.-table type, non-NC	36	591	3	50
190050	Flat surface grinding mach., n.e.c., non-NC	75	4465	8	735
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	168	13965	41	4849
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	22	2465	4	846
290030	Grinding mach., internal cylindrical, non-NC	33	1594	4	437
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	268	8697	52	2014
310080	Sharpening machines (tool & cutter grinding), NC	21	675	5	163
390050	Sharpening machines (tool & cutter grinding), non-NC	496	4700	52	468
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	405	4558	92	1074
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	25	2650	2	59
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	273	5741	50	1183
8461100060	Planing machines, NC	2	3163	1	3138
100080	Planing machines, non-NC	93	3628	9	1203
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	25	477	11	87
300060	Broaching machines, NC	1	248	0	0
300080	Broaching machines, non-NC	22	1365	13	495
401050	Gear hobbers	28	4239	1	408
401070	Gear shapers	12	533	1	190
401090	Gear cutting machines, n.e.c.	38	7261	11	2100
405060	Gear grinding or finishing machines	33	4813	7	2024
500050	Sawing or cutting-off machines, NC	22	1025	10	208
500090	Sawing or cutting-off machines, non-NC	526	7031	120	1619
9000000001	Metal cutting machine tools, n.e.c.	133	4257	31	1174
9800000001	Used or rebuilt machine tools	3452	27248	435	4521
9900000001	Machine tools valued at less than $2,500	18962	7895	2396	905
	Cutting Total			3585	41911
	Y-T-D Cutting Total	26875	219988		
	NC Y-T-D Cutting Total*	698	78959		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools – June 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	32
8457100015	0	0	0	0	0	0	0	0	4	796
100025	0	0	0	0	0	0	0	0	1	221
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	3	310	0	0	1	20
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	105
110030	0	0	0	0	0	0	0	0	2	280
110050	1	355	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	8	86
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	126
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	2	110	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	9	0	0	0	0	0	0	2	7
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	2	43
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	15	300
510080	0	0	0	0	0	0	7	229	1	111
590030	3	50	0	0	0	0	0	0	1	69
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	5
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	127	0	0	5	33
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	1	9	1	7
190050	0	0	0	0	0	0	1	107	2	69
210080	0	0	0	0	0	0	0	0	4	122
290010	0	0	0	0	0	0	0	0	2	210
290030	0	0	0	0	0	0	0	0	1	18
290050	0	0	0	0	13	160	0	0	4	760
310080	0	0	0	0	0	0	0	0	0	0
390050	6	17	0	0	0	0	4	25	13	92
400060	0	0	0	0	0	0	0	0	0	0
400080	20	111	1	16	3	46	0	0	3	25
900060	0	0	0	0	0	0	0	0	2	59
900080	5	332	0	0	2	10	0	0	9	47
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	28	0	0	0	0	1	5	2	202
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	5	229
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	190	0	0
401090	0	0	0	0	2	198	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	21
500090	0	0	0	0	1	9	2	33	37	468
9000000001	0	0	0	0	0	0	0	0	4	26
9800000001	60	324	0	0	1	32	1	37	91	733
9900000001	78	49	0	0	0	0	5	7	923	203
Month Tot	177	1385	1	16	27	891	23	640	1152	5525
Y-T-D Tot	451	5041	35	471	132	4056	230	4054	11890	29818
NC YTD Tot*	9	885	0	0	25	2793	8	460	115	10008

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	4	255	0	0	2	456	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	4	315
310040	0	0	0	0	0	0	0	0	0	0
310070	2	387	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	3	491	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110030	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	274	2	691	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	332	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	1	29	0	0	1	35	1	48
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	6	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	59	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	172
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	220
500050	0	0	0	0	0	0	0	0	0	0
500090	6	112	2	34	0	0	0	0	0	0
9000000001	1	5	1	388	0	0	0	0	1	63
9800000001	0	0	3	14	0	0	0	0	3	89
9900000001	0	0	57	37	1	2	3	2	14	21
Month Tot	10	778	74	1513	2	334	9	983	25	928
Y-T-D Tot	324	13635	512	8469	145	4158	84	2989	225	7646
NC YTD Tot*	78	8913	42	6208	4	1339	4	1086	6	995

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools – June 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	3	152	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	245	0	0
110090	0	0	0	0	0	0	1	102	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	3	73	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	19	0	0
911060	0	0	0	0	0	0	12	264	0	0
911080	0	0	2	483	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	3	256	0	0
995090	0	0	0	0	0	0	1	14	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	7	333	3	318	0	0	0	0	0	0
290040	1	50	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	107	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	2	36	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	2	276	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	2	138	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	13	0	0	0	0	0	0
700020	0	0	0	0	0	0	16	426	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	4	286	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	22	1128	0	0	0	0	2	109	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	2	51	0	0	5	50	0	0
390050	1	141	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	4	40	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	1	3	1	96	0	0
900080	4	130	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	4	146	0	0
100080	0	0	3	790	0	0	0	0	0	0
200010	0	0	0	0	0	0	1	6	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	10	76	0	0
300080	0	0	7	206	0	0	0	0	0	0
401050	0	0	1	13	0	0	1	60	0	0
401070	0	0	0	0	0	0	2	395	0	0
401090	2	316	2	962	0	0	0	0	0	0
405060	1	1184	0	0	0	0	3	350	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	11	156	1	3	0	0	0	0	0	0
9000000001	1	345	0	0	0	0	6	50	16	184
9800000001	4	61	28	239	1	25	15	143	0	0
9900000001	157	6	172	72	0	0	107	1308	18	24
							110	132	7	6
Month Tot	211	3850	222	3150	2	28	324	5358	41	214
Y-T-D Tot	1985	15669	692	21534	56	427	3615	28692	353	3202
NC YTD Tot*	59	4497	38	6917	2	69	74	6589	17	1877

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools – June 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	2	151	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	142	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	2	102	0	0	0	0	0	0
190090	0	0	1	14	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	83	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	114	0	0	0	0	0	0	0	0
290070	0	0	0	0	2	196	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	3	9	0	0	0	0
190010	0	0	0	0	0	0	1	74	0	0
190050	1	72	0	0	0	0	1	34	0	0
210080	1	733	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	546	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	9	107	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	3	19	15	96	0	0
400080	1	23	0	0	0	0	0	0	0	0
900060	0	0	0	0	6	59	4	45	0	0
900080	0	0	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	1	9	2	119	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	1	10	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	2	55	3	113	0	0
500090	0	0	1	24	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	2	10	3	5	0	0	0	0	0	0
9900000001	19	22	0	0	18	12	5	65	8	429
Month Tot	32	1745	7	145	37	511	71	683	8	429
Y-T-D Tot	582	4956	197	1451	164	2467	462	4544	69	1118
NC YTD Tot*	24	1927	1	677	13	1513	10	890	5	178

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	42
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	9	665	0	0	0	0	0	0	0	0
110050	2	413	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	2	23
190070	0	0	0	0	0	0	0	0	3	8
190090	2	11	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	3	8
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	1	28	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	88	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	6	31
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	1	5	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	1	27
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	1	58	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	2	178	0	0
690090	1	101	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	31
700080	0	0	0	0	1	4	0	0	18	190
8460110080	0	0	0	0	0	0	3	250	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	12	0	0	1	367
210080	5	518	0	0	0	0	4	1282	2	103
290010	1	36	0	0	0	0	1	600	0	0
290030	1	50	0	0	0	0	1	37	0	0
290050	1	195	0	0	0	0	18	195	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	6	38	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	2	31	0	0	41	502	8	111
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	17	249	3	83
8461100060	1	3138	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	1	672	0	0	0	0	0	0	1	54
500050	7	163	0	0	1	24	0	0	0	0
500090	27	421	1	8	0	0	4	25	5	92
9000000001	2	38	0	0	0	0	3	57	3	105
9800000001	2	11	0	0	5	6	17	639	76	471
9900000001	138	58	0	0	10	7	4	2	650	250
Month Tot	201	6495	3	39	20	138	122	4141	784	1995
Y-T-D Tot	1209	20628	6	729	230	4532	939	12311	2288	17391
NC YTD Tot*	80	11807	0	0	5	283	22	4138	57	4909

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 89

RELEASED: August 30, 1989

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	321	5731	50	1498
8462100030	Headers and upsetters, including cold headers	45	8908	17	2924
100050	Forging or die stamping machines, and hammers, n.e.c.	323	11666	57	1324
210080	Bending, folding, straight. or flat. mach., incl presses, NC	195	13457	30	2368
290030	Press brakes, non-NC	21	995	4	171
290040	Bending rolls, non-NC	41	1314	3	73
290050	Bending, folding, straight., or flat., n.e.c., non-NC	295	11283	35	1657
310080	Shearing machines, NC	33	2856	2	103
390050	Shearing machines, non-NC	78	1972	8	172
410080	Punching or notching mach., incl. comb. punch & shear, NC	72	11411	10	1526
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	416	13800	100	2864
910060	Hydraulic presses, NC	50	1926	12	421
910090	Hydraulic presses, non-NC	299	11780	32	2193
990030	Presses, n.e.c., NC	29	3917	3	430
990040	Presses, mechanical, non-NC	97	4127	14	773
990060	Presses, n.e.c., non-NC	323	15540	82	4246
8463100080	Draw benches for bars, tubes, profiles, wire or the like	161	3455	21	436
200080	Thread rolling machines	25	2387	1	65
300080	Machines for working wire	566	19535	72	1932
900080	Metal forming machine tools, n.e.c.	1370	60064	149	8001
9800000002	Used or rebuilt machine tools	1964	37860	286	11579
9900000002	Machine tools valued at less than $2,500	3201	2424	439	344
	Forming Total			1427	45100
	Y-T-D Forming Total	9925	246407		
	NC Y-T-D Forming Total	379	33567		
	Cutting and Forming Totals:				
	Monthly Total			5012	87013
	Y-T-D Total	36800	466395		
	NC Y-T-D Total*	1077	112525		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	336406	0	55008
2710003070	Quenching or cutting oils	0	5495	0	892
8428900010	Industrial robots for lifting, handling, loading or unload	560	7785	107	2717
8456100000	Laser, light or photon beam for working any material	1872	22504	140	4583
200000	Ultrasonic process for working any material	75	401	4	95
8477106010	Injection molding mach., for rubber or oth. thermosetting	130	12113	8	520
106050	Injection molding mach., for thermoplastics	235	29168	76	5836
200010	Extruders for rubber or other thermosetting materials	124	4965	28	867
200050	Extruders for processing thermoplastics	569	21337	146	6021
300000	Blow molding machines	229	18266	44	1821
400000	Vacuum-molding and other thermoforming machines	859	8256	176	1430
8479899040	Industrial robots, n.e.c.	1268	17312	293	3906
900040	Industrial robot parts	0	6598	0	1180
8537100030	Numerical controls for controlling machine tools	7231	21033	714	5145
9024100000	Machines and appliances for testing metals	0	40088	0	4695
9031100000	Machines for balancing mechanical parts	0	13076	0	1267
300000	Profile projectors	0	4303	0	593
9032810040	Industrial process control instr., hydraulic or pneumatic	310567	20202	54330	4260

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	26	285
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	42	0	0	0	0	0	0	8	214
210080	2	59	0	0	0	0	1	166	3	91
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	19
290050	0	0	0	0	0	0	0	0	14	211
310080	0	0	0	0	0	0	0	0	1	46
390050	0	0	0	0	0	0	0	0	6	138
410080	1	99	0	0	0	0	0	0	2	110
490050	1	15	0	0	0	0	0	0	7	64
910060	1	77	0	0	0	0	0	0	3	59
910090	0	0	0	0	0	0	0	0	3	204
990030	0	0	0	0	0	0	2	230	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	5	163
8463100080	0	0	0	0	0	0	0	0	1	10
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	2	39	4	66
900080	2	17	0	0	2	785	6	142	9	98
9800000002	2	59	0	0	0	0	11	506	18	213
9900000002	112	96	0	0	0	0	0	0	93	71
Month Tot	123	463	0	0	2	785	22	1083	204	2061
Y-T-D Tot	327	4485	103	616	91	1673	68	2919	1490	20692
NC YTD Tot	12	856	0	0	0	0	9	687	74	7036
C&F Month	300	1848	1	16	29	1676	45	1723	1356	7586
C&F Y-T-D	778	9526	138	1087	223	5729	298	6974	13380	50510
C&F NC YTD*	21	1741	0	0	25	2793	17	1147	189	17044

Other Manufacturing Technology

1000000000	0	945	0	161	0	524	0	1764	0	9880
2710003070	0	49	0	0	0	0	0	0	0	171
8428900010	0	0	0	0	0	0	0	0	15	2007
8456100000	1	33	0	0	0	0	0	0	1	82
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	3	187
106050	0	0	0	0	0	0	4	467	28	1857
200010	0	0	0	0	0	0	2	298	0	0
200050	0	0	0	0	1	230	2	43	48	1369
300000	0	0	0	0	0	0	0	0	3	365
400000	54	148	0	0	32	274	0	0	13	187
8479899040	1	130	0	0	1	40	0	0	41	941
900040	0	2	0	0	0	18	0	0	0	113
8537100030	10	53	0	0	4	32	5	9	44	222
9024100000	0	89	0	0	0	57	0	20	0	745
9031100000	0	67	0	0	0	0	0	0	0	524
300000	0	0	0	0	0	0	0	0	0	31
9032810040	915	73	606	30	388	40	123	16	3956	501

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	9	1	6	0	0	5	54
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	70	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	42
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	76	2	750	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	9	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	30	386	1	13	1	5	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	1	200	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	2	689	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	1	27
300080	0	0	4	81	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	8	190
9800000002	13	44	1	10	0	0	0	0	1	18
9900000002	0	0	28	24	0	0	0	0	28	7
Month Tot	46	509	39	1102	4	760	2	2	50	346
Y-T-D Tot	207	7239	293	4660	75	5498	8	109	139	5163
NC YTD Tot	18	437	3	261	3	190	0	0	3	2249
C&F Month	56	1287	113	2615	6	1094	11	985	75	1274
C&F Y-T-D	531	20875	805	13129	220	9656	92	3098	364	12809
C&F NC YTD*	96	9349	45	6469	7	1529	4	1086	9	3245

Other Manufacturing Technology

1000000000	0	735	0	1998	0	238	0	8	0	1440
2710003070	0	0	0	0	0	0	0	30	0	10
8428900010	12	119	54	485	0	0	0	0	0	0
8456100000	0	0	2	180	6	138	0	0	3	63
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	115	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	2	135
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	1	30	0	0	0	0	6	153
300000	0	0	0	0	0	0	0	0	2	171
400000	3	338	0	0	0	0	0	0	1	78
8479899040	0	0	31	186	0	0	0	0	2	10
900040	0	19	0	43	0	0	0	0	0	0
8537100030	26	159	62	292	0	0	0	0	17	84
9024100000	0	22	0	84	0	22	0	0	0	153
9031100000	0	0	0	0	0	191	0	0	0	3
300000	0	0	0	0	0	0	0	0	0	0
9032810040	98	14	3947	217	0	0	2	4	3800	260

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	5	0	0	1	6	0	0
8462100030	7	1201	3	1179	0	0	1	6	0	0
100050	2	12	13	269	0	0	7	142	0	0
210080	12	405	0	0	0	0	3	164	0	0
290030	0	0	1	49	0	0	3	122	0	0
290040	0	0	0	0	0	0	1	38	0	0
290050	1	43	0	0	0	0	8	312	0	0
310080	0	0	0	0	0	0	1	57	0	0
390050	0	0	0	0	0	0	1	25	0	0
410080	1	555	2	270	2	314	1	33	0	0
490050	0	0	0	0	0	0	3	731	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	2	631	0	0	19	178	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	8	207	0	0	2	57	0	0
990060	2	356	1	255	0	0	48	600	0	0
8461100080	0	0	4	95	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	17	4	95	0	0	5	123	1	22
900080	2	35	44	5022	0	0	15	197	0	0
9800000002	12	174	12	636	0	0	174	1362	0	0
9900000002	6	5	9	6	0	0	59	55	6	5
Month Tot	46	2823	124	8719	2	314	352	4210	7	27
Y-T-D Tot	501	32298	679	46025	12	736	1812	22182	67	1435
NC YTD Tot	85	6770	14	1734	3	419	31	1654	10	1032
C&F Month	257	6673	146	11869	4	342	676	9568	48	241
C&F Y-T-D	2486	47967	1371	57559	68	1163	5427	50874	420	8632
C&F NC YTD*	144	11267	52	8651	5	488	105	8243	27	2909

Other Manufacturing Technology

1000000000	0	4959	0	2028	0	194	0	5704	0	557
2210003070	0	20	0	27	0	2	0	34	0	8
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	20	1276	0	0	0	0	0	0	1	69
200000	1	23	0	0	0	0	0	0	0	0
8477106010	1	54	0	0	0	0	2	114	0	0
106050	0	0	1	103	0	0	4	150	0	0
200010	0	0	0	0	0	0	22	497	0	0
200050	2	15	34	236	0	0	36	3029	0	0
300000	0	0	0	0	0	0	12	169	0	0
400000	10	15	0	0	0	0	23	244	0	0
8479899040	2	9	24	699	0	0	2	13	4	21
900040	0	314	0	0	0	0	0	39	0	0
8517100010	19	1463	13	68	0	0	2	5	16	116
9024100000	0	1084	0	434	0	16	0	140	0	42
9031100000	0	14	0	19	0	2	0	117	0	0
100000	0	463	0	0	0	0	0	3	0	0
9032810040	930	146	1536	143	0	0	9578	572	10424	587

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	37	0	0	0	0	0	0	4	138
210080	0	0	0	0	1	26	1	34	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	97	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	2	31	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	144	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	2	38
910090	1	10	0	0	0	0	0	0	1	8
990030	0	0	0	0	0	0	1	65	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	11	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	10	0	0
300080	0	0	2	185	0	0	0	0	0	0
900080	0	0	1	10	0	0	1	14	0	0
9800000002	0	0	0	0	0	0	3	85	0	0
9900000002	10	8	0	0	0	0	0	0	1	25
									0	0
Month Tot	15	162	4	339	1	26	9	239	8	408
Y-T-D Tot	124	1269	81	2768	33	944	97	5805	54	1689
NC YTD Tot	14	2436	0	0	7	310	8	957	2	199
C&F Month	47	1907	11	484	38	537	80	922	16	838
C&F Y-T-D	706	11205	278	4218	197	3411	559	10349	123	2807
C&F NC YTD*	98	4363	1	677	20	1824	18	1848	7	377

Other Manufacturing Technology

1000000000	0	1716	0	687	0	608	0	1263	0	125
2710003070	0	28	0	0	0	0	0	239	0	38
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	6	223	0	0
200000	0	0	2	53	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	8	0	0	0
106050	1	183	0	0	0	0	24	1538	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	541	0	0	0	0	3	87	0	0
300000	0	0	0	0	0	0	0	0	2	287
400000	2	23	0	0	3	9	1	6	0	0
8479899040	0	0	0	0	31	315	2	12	0	0
900040	0	45	0	2	0	20	0	0	0	0
8537100030	1	5	1	7	6	23	32	133	4	24
9024100000	0	50	0	50	0	48	0	44	0	0
9031100000	0	82	0	8	0	6	0	0	0	0
300000	0	0	0	0	0	0	0	44	0	0
9032810040	819	51	1227	188	0	0	488	40	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	28	0	0	2	1065	0	0	9	41
8462100030	0	0	0	0	0	0	2	201	0	0
100050	11	323	0	0	0	0	0	0	10	195
210080	1	13	0	0	0	0	0	0	5	1366
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	16
290050	3	50	0	0	1	9	1	73	1	6
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	1	146	0	0	0	0	0	0	0	0
490050	13	162	0	0	0	0	1	23	40	1283
910060	4	80	0	0	0	0	0	0	3	197
910090	0	0	0	0	0	0	1	948	5	157
990030	0	0	0	0	0	0	0	0	0	0
990040	1	294	0	0	0	0	0	0	3	215
990060	3	1571	0	0	2	19	2	356	16	226
8463100080	0	0	0	0	0	0	6	91	8	203
200080	0	0	0	0	0	0	0	0	1	65
300080	7	152	0	0	3	29	1	31	29	888
900080	3	139	0	0	2	20	6	85	53	1349
9800000002	3	7	0	0	2	110	0	0	9	8422
9900000002	16	9	0	0	0	0	40	30	32	28
Month Tot	70	2973	0	0	12	1252	60	1838	225	14657
Y-T-D Tot	714	26112	2	108	137	5752	468	12117	2343	39133
NC YTD Tot	42	2198	2	108	2	55	3	276	34	3703
C&F Month	271	9468	3	39	32	1390	182	5979	1009	16652
C&F Y-T-D	1923	46740	8	837	367	10284	1407	24428	4631	56523
C&F NC YTD*	122	14005	2	108	7	338	25	4414	91	8611

Other Manufacturing Technology

1000000000	0	5438	0	85	0	545	0	6483	0	6922
2710003070	0	23	0	0	0	9	0	32	0	171
8428900010	2	66	0	0	0	0	0	0	26	40
8456100000	27	888	0	0	0	0	10	234	61	1396
200000	1	19	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	50
106050	1	100	0	0	1	324	6	423	4	556
200010	0	0	0	0	0	0	3	57	1	15
200050	3	82	0	0	0	0	3	80	5	126
300000	0	0	0	0	23	426	0	0	2	403
400000	0	0	0	0	2	12	5	36	27	60
8479899040	17	102	0	0	0	0	119	1047	16	381
900040	0	367	0	0	0	0	0	185	0	14
8537100030	181	1292	0	0	3	15	121	537	147	604
9024100000	0	621	0	0	0	2	0	309	0	661
9031100000	0	88	0	0	0	40	0	0	0	106
300000	0	12	0	0	0	0	0	41	0	0
9032810040	3909	280	0	0	292	108	2772	174	6525	817

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8465940000.
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	3	127	0	0	3	127
Czechoslovakia	0	0	0	0	0	0
Denmark	5	3	9	29	14	32
East Germany	0	0	0	0	0	0
Finland	268	61	1	16	269	77
Greece	0	0	2	1255	2	1255
Hungary	4	3	0	0	4	3
Iceland	0	0	0	0	0	0
Ireland	1	52	0	0	1	52
Luxembourg	0	0	0	0	0	0
Norway	1	3	1	33	2	35
Poland	0	0	0	0	0	0
Portugal	0	0	5	114	5	114
Romania	0	0	0	0	0	0
Sweden	9	38	18	79	27	117
Turkey	0	0	0	0	0	0
Yugoslavia	2	46	4	154	6	200
Oth Europe	0	0	1	86	1	86
TOTAL	831	15226	274	9204	1105	24430
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	4	5	0	0	4	5
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	3	39	0	0	3	39
Dominican Rep	10	52	18	184	28	236
El Salvador	0	0	0	0	0	0
Guatemala	0	0	1	2	1	2
Haiti	0	0	0	0	0	0
Honduras	1	1	5	95	6	97
Jamaica	1	10	1	6	4	16
Panama	4	11	2	48	6	59
Trinidad	1	2	0	0	1	2
Oth N & C Am	3	68	1	2	4	69
TOTAL	1505	11073	584	5607	2089	17680
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Bolivia	0	0	0	0	0	0
Chile	9	100	13	330	22	430
Colombia	157	163	8	332	165	495
Ecuador	0	0	3	95	3	95
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Oth South Am	0	0	1	66	1	66
TOTAL	209	1041	59	3158	268	4199
OCEANIA						
New Zealand	8	110	1	14	9	123
Oth Oceania	0	0	0	0	0	0
TOTAL	185	1495	124	477	309	1971

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	74	146	51	1429	125	1575
Iran	0	0	0	0	0	0
Iraq	1	51	0	0	1	51
Israel	4	86	41	987	45	1073
Jordan	0	0	0	0	0	0
Kuwait	5	72	0	0	5	72
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	2	394	0	0	2	394
Philippines	10	55	8	298	18	363
Qatar	0	0	0	0	0	0
Saudi Arabia	39	90	24	545	63	635
Sri Lanka	1	2	0	0	1	2
Syria	0	0	0	0	0	0
United Arab Emr	20	19	0	0	20	19
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	4	105	4	105
TOTAL	723	12903	384	17302	1107	30205
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	129	168	2	8352	131	8520
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	3	8	0	0	3	8
Oth Africa	0	0	0	0	0	0
TOTAL	132	176	2	8352	134	8528

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000